Table SRD-3

Funds spent for business R&D performed in the United States, by type of R&D and selected sources of funds: 2010–19
(Millions of dollars and percent share)

Source of funds	2010	2011	2012		2013	2014	2015		2016	2017	2018	2019
					Millions of do	ollars						
					All business	R&D						
All business R&D ^a	278,977	294,093	302,250		322,528	340,728	355,821		374,685	400,100	441,036	492,956
Paid for by the company	221,706	238,768	247,280		264,913	282,570	296,677		317,731	339,036	377,806	428,968
Paid for by others	57,271	55,324	54,970		57,615	58,158	59,144		56,954	61,065	63,230	63,989
Federal	34,199 i	31,309 i	30,621	i	29,362	26,554 i	26,990		23,772	24,277 i	24,685	21,941
All others	23,072	24,015	24,349		28,253	31,604	32,154		33,182	36,788	38,545	42,048
					Basic resea	ırch						
All business R&D ^a	16,371	13,020	13,293		19,508	21,936	21,792		24,644	24,829	28,980	32,239
Paid for by the company	13,453	10,735	11,163		15,275	16,107	16,306		19,143	18,732	22,312	25,916
Paid for by others	2,918	2,285	2,131		4,233	5,829	5,486		5,501 i	6,097	6,668	6,324
Federal	1,406	677	644	i	1,196 i	2,044 i	2,038		2,005 i	1,783 i	2,510 i	2,313
All others	1,512	1,608	1,487		3,037	3,785	3,448		3,496	4,314	4,158	4,011
					Applied rese	arch						
All business R&D ^a	44,906	47,186	50,755		51,014	53,415	56,472		61,020	62,132	65,222	74,031
Paid for by the company	35,475	37,573	39,629		38,105	39,012	44,344		48,806	49,149	53,229	59,697
Paid for by others	9,431	9,613	11,126	i	12,908	14,403	12,128		12,213	12,984	11,993	14,333
Federal	4,705	4,404	4,137		6,028 i	6,445 i	6,102	i	5,181 i	5,037 i	5,097 i	4,883
All others	4,726	5,209	6,989		6,880	7,958	6,026		7,032	7,947	6,896	9,450
					Experimental dev							
All business R&D ^a	217,699	233,887	238,202		252,007	265,377	277,558		289,021	313,139	346,834	386,686
Paid for by the company	172,777	190,460	196,488		211,532	227,451	236,027		249,782	271,155	302,264	343,355
Paid for by others	44,922 i	43,426	41,714		40,475	37,927 i	41,530		39,239	41,984	44,570	43,332
Federal	28,089 i	26,228 i	25,840		22,137 i	18,065 i	18,850	i	16,586	17,457 i	17,078	14,745
All others	16,833	17,198	15,874		18,338	19,862	22,680		22,653	24,527	27,492	28,587
			Sources	of funds	as a percentage of	business R&D, by t	ype of R&D					
					All business	R&D						
All business R&D ^a	100.0	100.0	100.0		100.0	100.0	100.0		100.0	100.0	100.0	100.0
Paid for by the company	79.5	81.2	81.8		82.1	82.9	83.4		84.8	84.7	85.7	87.0
Paid for by others	20.5	18.8	18.2		17.9	17.1	16.6		15.2	15.3	14.3	13.0
Federal	12.3	10.6	10.1		9.1	7.8	7.6		6.3	6.1	5.6	4.5
All others	8.3	8.2	8.1		8.8	9.3	9.0		8.9	9.2	8.7	8.5
					Basic resea							
All business R&D ^a	100.0	100.0	100.0		100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0
Paid for by the company	82.2	82.5	84.0		78.3	73.4	74.8		77.7	75.4	77.0	80.4

Table SRD-3

Funds spent for business R&D performed in the United States, by type of R&D and selected sources of funds: 2010–19

(Millions of dollars and percent share)

Source of funds	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Paid for by others	17.8	17.5	16.0	21.7	26.6	25.2	22.3	24.6	23.0	19.6
Federal	8.6	5.2	4.8	6.1	9.3	9.4	8.1	7.2	8.7	7.2
All others	9.2	12.4	11.2	15.6	17.3	15.8	14.2	17.4	14.3	12.4
			·	Applied res	earch	·				
All business R&D ^a	100.0	100.0	100.0	0.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0
Paid for by the company	79.0	79.6	78.1	74.7	73.0	78.5	80.0	79.1	81.6	80.6
Paid for by others	21.0	20.4	21.9	25.3	27.0	21.5	20.0	20.9	18.4	19.4
Federal	10.5	9.3	8.2	11.8	12.1	10.8	8.5	8.1	7.8	6.6
All others	10.5	11.0	13.8	13.5	14.9	10.7	11.5	12.8	10.6	12.8
		<u> </u>	·	Experimental de	velopment	'		· ·	<u> </u>	
All business R&D ^a	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Paid for by the company	79.4	81.4	82.5	83.9	85.7	85.0	86.4	86.6	87.1	88.8
Paid for by others	20.6	18.6	17.5	16.1	14.3	15.0	13.6	13.4	12.9	11.2
Federal	12.9	11.2	10.8	8.8	6.8	6.8	5.7	5.6	4.9	3.8
All others	7.7	7.4	6.7	7.3	7.5	8.2	7.8	7.8	7.9	7.4

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = North American Industry Classification System.

^a Includes companies located in the United States that performed or funded R&D. Data in this table represent an aggregate of all industries in the North American Industry Classification System codes 21–33 and 42–81.

Note(s):

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. For survey years 2010–13, industry classification was based on the 2007 NAICS, whereas for survey years 2014–18, industry classification was based on the 2012 NAICS. The 2010–16 data come from the Business R&D and Innovation Survey and do not include companies with fewer than 5 domestic employees. Data for 2017–18 come from the Business Research and Development Survey and do not include companies with fewer than 10 domestic employees.

Source(s):

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey (BRDIS), Business Research and Development Survey (BRDS), and Business Enterprise Research and Development Survey (BERD).

Science and Engineering Indicators